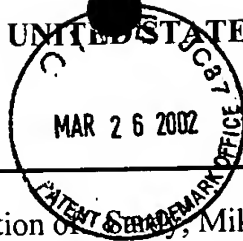
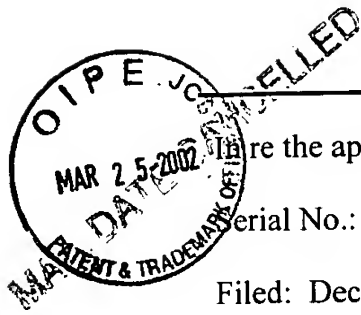


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Re the application of *Sandor, Miklos et al.*

Serial No.: 10/019067

Filed: December 21, 2001

For: DIAGNOSIS OF GLUTEN SENSITIVE
ENTEROPATHY AND OTHER
AUTOIMMUNOPATHIES

Attorney Docket No.: HLZ-001US

Group Art Unit: not yet assigned

Examiner: not yet assigned

Commissioner for Patents
Washington, D.C. 20231

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3/22/02
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By:

Elizabeth A. Hanley
Registration No. 33,505
Attorney for Applicants

INFORMATION DISCLOSURE STATEMENT

Dear Sir:


Applicants and their Attorney are aware of the following publications and information, listed on the attached PTO Form 1449, and in accordance with 37 CFR §1.97 hereby submit these publications for the Examiner's consideration. A copy of each cited publication is enclosed.

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other

relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, Applicants understand that the Examiner will make an independent evaluation of the cited publications.

No additional costs are believed to be due in connection with the filing of this Information Disclosure Statement. However, please charge any necessary fees in connection with the enclosed statement to our Deposit Order Account No. 12-0080.

Respectfully submitted,
LAHIVE & COCKFIELD, LLP



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Date: 3/22/02

EAH/MCA/alf
Enclosures

APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO HLZ-001US	SERIAL NO. 10/019067
U.S. PATENT DOCUMENTS		
APPLICANT Sardy, Miklos et al.		
FILING DATE December 21, 2001		GROUP

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

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A1	Andberg, M. et al. "Mutation of tyrosine 383 in leukotriene A ₄ hydrolase allows conversion of leukotriene A ₄ into 5S,6S-dihydroxy-7,9-trans-11,14-cis-eicosatetraenoic acid. Implications for the epoxide hydrolase mechanism," <i>J. Biol. Chem.</i> 1997 Sep 12;272(37):23057-63	
A2	Barrett, A.J. et al. Eds. "336. Introduction: family M1 of membrane alanyl aminopeptidase," in <i>Handbook of proteolytic enzymes</i> 1998 Oct; pp. 994-996	
A3	Blomster, M. et al. "Evidence for a catalytic role of tyrosine 383 in the peptidase reaction of leukotriene A ₄ hydrolase," <i>Eur. J. Biochem.</i> 1995 Aug 1;231(3):528-34	
A4	Byrum, R.S. et al. "Determination of the contribution of cysteinyl leukotrienes and leukotriene B ₄ in acute inflammatory responses using 5-lipoxygenase- and leukotriene A ₄ hydrolase-deficient mice," <i>J. Immunol.</i> 1999 Dec 15;163(12):6810-9	
A5	Chen, X.-S. et al. "Role of leukotrienes revealed by targeted disruption of the 5-lipoxygenase gene," <i>Nature</i> 1994 Nov;372:179-182	
A6	Cramer, A. et al. "DNA shuffling of a family of genes from diverse species accelerates directed evolution," <i>Nature</i> 1998 Jan 15;391(6664):288-91	
A7	Devchand, P.R. et al. "The PPAR α -leukotriene B ₄ pathway to inflammation control," <i>Nature</i> 1996 Nov 7;384(6604):39-43	
A8	Dittmann, K.H. et al. "MK-886, a leukotriene biosynthesis inhibitor, induces antiproliferative effects and apoptosis in HL-60 cells," <i>Leuk. Res.</i> 1998 Jan;22(1):49-53	
A9	Drazen, J.M. et al. "Treatment of asthma with drugs modifying the leukotriene pathway," <i>N. Engl. J. Med.</i> 1999 Jan 21;340(3):197-206	
A10	Evans, J.F. "Leukotriene A ₃ . A poor substrate but a potent inhibitor of rat and human neutrophil leukotriene A ₄ hydrolase," <i>J. Biol. Chem.</i> 1985 Sep 15;260(20):10966-70	
A11	Ford-Hutchinson, A.W. et al. "Leukotriene B ₄ , a potent chemokinetic and aggregating substance released from polymorphonuclear leukocytes," <i>Nature</i> 1980 July 17;286:264-65	
A12	Funk, C.D. et al. "Molecular cloning and amino acid sequence of leukotriene A ₄ hydrolase," <i>Proc. Natl. Acad. Sci. USA</i> 1987 Oct;84(19):6677-81	
A13	Griffiths, R.J. et al. "Leukotriene B ₄ plays a critical role in the progression of collagen-induced arthritis," <i>Proc. Natl. Acad. Sci. USA</i> 1995 Jan 17;92(2):517-21	
A14	Griffiths, R.J. et al. "Collagen-induced arthritis is reduced in 5-lipoxygenase-activating protein-deficient mice," <i>J. Exp. Med.</i> 1997 Mar 17;185(6):1123-9	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant		

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LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)	APPLICANT Sardy, Miklos et al.	
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	B1	Haeggström, J.Z. et al. "Leukotriene A ₄ hydrolase: structural and functional properties of the active center," <i>J. Lipid Mediat.</i> 1993 Mar-Apr;6(1-3):1-13
	B2	Hogg, J.H. et al. "Probing the activities and mechanisms of leukotriene A ₄ hydrolase with synthetic inhibitors," <i>Chem. Eur. J.</i> 1998;4(9):1698-1713
	B3	Kuchner, O. et al. "Directed evolution of enzyme catalysts," <i>Trends Biotechnol.</i> 1997 Dec;15(12):523-30
	B4	Labaudinière, R. et al. "ω -[(ω-Arylalkyl)thienyl]alkanoic acids: from specific LTA ₄ hydrolase inhibitors to LTB ₄ receptor antagonists," <i>J. Med. Chem.</i> 1992 Aug 21;35(17):3170-9
	B5	Lewis, R.A. et al. "Leukotrienes and other products of the 5-lipoxygenase pathway. Biochemistry and relation to pathobiology in human diseases," <i>N. Engl. J. Med.</i> 1990 Sep 6;323(10):645-55
	B6	Lorsch, J.R. et al. "In vitro evolution of new ribozymes with polynucleotide kinase activity," <i>Nature</i> 1994 Sep 1;371(6492):31-6
	B7	Medina, J.F. et al. "Leukotriene A ₄ hydrolase: determination of the three zinc-binding ligands by site-directed mutagenesis and zinc analysis," <i>Proc. Natl. Acad. Sci. USA</i> 1991 Sep 1;88(17):7620-4
	B8	Ménard, A. et al. "The cytotoxic activity of Bacillus anthracis lethal factor is inhibited by leukotriene A ₄ hydrolase and metallopeptidase inhibitors," <i>Biochem. J.</i> 1996 Dec 1;320 (Pt 2):687-91
	B9	Mueller, M.J. et al. "Leukotriene A ₄ hydrolase: mapping of a hencosapeptide involved in mechanism-based inactivation," <i>Proc. Natl. Acad. Sci. USA</i> 1995 Aug 29;92(18):8383-7
	B10	Mueller, M.J. et al. "Leukotriene A ₄ hydrolase: protection from mechanism-based inactivation by mutation of tyrosine-378," <i>Proc. Natl. Acad. Sci. USA</i> 1996 Jun 11;93(12):5931-5
	B11	Mueller, M.J. et al. "Leukotriene A ₄ hydrolase, mutation of tyrosine 378 allows conversion of leukotriene A ₄ into an isomer of leukotriene B ₄ ," <i>J. Biol. Chem.</i> 1996 Oct 4;271(40):24345-8
	B12	Nord, K. et al. "Binding proteins selected from combinatorial libraries of an alpha-helical bacterial receptor domain," <i>Nat. Biotechnol.</i> 1997 Aug;15(8):772-7
	B13	Orning, L. et al. "Inhibition of leukotriene A ₄ hydrolase/aminopeptidase by captopril," <i>J. Biol. Chem.</i> 1991 Sep 5;266(25):16507-11
	B14	Orning, L. et al. "The bifunctional enzyme leukotriene- A ₄ hydrolase is an arginine aminopeptidase of high efficiency and specificity," <i>J. Biol. Chem.</i> 1994 Apr 15;269(15):11269-73
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C1	Owman, C. et al. "The leukotriene B ₄ receptor functions as a novel type of coreceptor mediating entry of primary HIV-1 isolates into CD4-positive cells," <i>PNAS. USA</i> 1998 Aug 4;95(16):9530-4
C2	Rola-Pleszczynski, M. et al. "Leukotrienes augment interleukin 1 production by human monocytes," <i>J. Immunol.</i> 1985 Dec;135(6):3958-61
C3	Samuelsson, B. "Leukotrienes: mediators of immediate hypersensitivity reactions and inflammation," <i>Science</i> 1983 May 6;220(4597):568-75
C4	Samuelsson, B. et al. "Leukotrienes and lipoxins: structures, biosynthesis, and biological effects," <i>Science</i> 1987 Sep 4;237(4819):1171-6
C5	Serhan, C.H. et al. "Lipid mediator networks in cell signaling: update and impact of cytokines," <i>FASEB J.</i> 1996 Aug;10:1-12
C6	Tsuge, H. et al. "Crystallization and preliminary X-ray crystallographic studies of recombinant human leukotriene A ₄ hydrolase complexed with bestatin," <i>J. Mol. Biol.</i> 1994 May 20;238(5):854-6
C7	Vallee, B.L. et al. "Active-site zinc ligands and activated H ₂ O of zinc enzymes," <i>Proc. Natl. Acad. Sci. USA</i> 1990 Jan;87(1):220-4
C8	Wetterholm, A. et al. "Recombinant mouse leukotriene A ₄ hydrolase: a zinc metalloenzyme with dual enzymatic activities," <i>Biochim. Biophys. Acta</i> 1991 Oct 25;1080(2):96-102
C9	Wetterholm, A. et al. "Leukotriene A ₄ hydrolase: abrogation of the peptidase activity by mutation of glutamic acid-296," <i>Proc. Natl. Acad. Sci. USA</i> 1992 Oct 1;89(19):9141-5
C10	Wetterholm, A. et al. "Potent and selective inhibitors of leukotriene A ₄ hydrolase: effects on purified enzyme and human polymorphonuclear leukocytes," <i>J. Pharmacol. Exp. Ther.</i> 1995 Oct;275(1):31-7
C11	Yamaoka, K.A. et al. "Leukotriene B ₄ enhances activation, proliferation, and differentiation of human B lymphocytes," <i>J. Immunol.</i> 1989 Sep 15;143(6):1996-2000
C12	Yokomizo, T. et al. "A G-protein-coupled receptor for leukotriene B ₄ that mediates chemotaxis," <i>Nature</i> 1997 Jun 5;387(6633):620-4
C13	Yokomizo, T. et al. "A second leukotriene B ₄ receptor, BLT2. A new therapeutic target in inflammation and immunological disorders," <i>J. Exp. Med.</i> 2000 Aug 7;192(3):421-32
C14	Yuan, W. et al. "Novel tight-binding inhibitors of leukotriene A ₄ hydrolase," <i>J. Am. Chem. Soc.</i> 1992 April;114:6552-53
C15	GenPept Acc. No. S65947; leukotriene-A ₄ hydrolase (EC 3.3.2.6) long isoform - human
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Date Considered	
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